

Grade	Minimum limits of—		Maximum Limits of—				
	Test weight per bushel (pounds)	Sound barley (percent)	Damaged kernels ¹ (percent)	Heat damaged kernels (percent)	Foreign material (percent)	Broken kernels (percent)	Thin barley (percent)
U.S. No. 5	36.0	75.0	10.0	3.0	5.0	28.0	75.0

U.S. Sample Grade:

U.S. Sample grade shall be barley that:

- (a) Does not meet the requirements for the grades 1, 2, 3, 4, or 5; or
- (b) Contains 8 or more stones or any number of stones which have an aggregate weight in excess of 0.2 percent of the sample weight, 2 or more pieces of glass, 3 or more crotalaria seeds (*Crotalaria* spp.), 2 or more castor beans (*Ricinus communis* L.), 4 or more particles of unknown foreign substance(s) or commonly recognized harmful or toxic substance(s), 8 or more cocklebur (*Xanthium* spp.) or similar seeds singly or in combination, 10 or more rodent pellets, bird droppings, or equivalent quantity of other animal filth per 1½ to 1¼ quarts of barley; or
- (c) Has a musty, sour, or commercially objectionable foreign odor (except smut or garlic odor); or
- (d) Is heating or otherwise of distinctly low quality.

¹ Includes heat-damaged kernels. Injured-by-frost kernels and injured-by-mold kernels are not considered damaged kernels.

[61 FR 18492, Apr. 26, 1996]

SPECIAL GRADES AND SPECIAL GRADE REQUIREMENTS

§ 810.207 Special grades and special grade requirements.

(a) *Blighted barley*. Barley that contains more than 4.0 percent of fungus-damaged and/or mold-damaged kernels.

(b) *Ergoty barley*. Barley that contains more than 0.10 percent ergot.

(c) *Garlicky barley*. Barley that contains three or more green garlic bulblets, or an equivalent quantity of dry or partly dry bulblets in 500 grams of barley.

(d) *Smutty barley*. Barley that has kernels covered with smut spores to give a smutty appearance in mass, or which contains more than 0.20 percent smut balls.

[52 FR 24418, June 30, 1987, as amended at 52 FR 24441, June 30, 1987]

Subpart C—United States Standards for Canola—Terms Defined

SOURCE: 57 FR 3274, Jan. 29, 1992, unless otherwise noted.

§ 810.301 Definition of canola.

Seeds of the genus *Brassica* from which the oil shall contain less than 2 percent erucic acid in its fatty acid profile and the solid component shall contain less than 30.0 micromoles of any one or any mixture of 3-butenyl glucosinolate, 4-pentenyl glucosinolate, 2-hydroxy-3-butenyl, or 2-hydroxy-4-pentenyl glucosinolate, per gram of air-dried, oil free solid. Before

the removal of dockage, the seed shall contain not more than 10.0% of other grains for which standards have been established under the United States Grain Standards Act.

§ 810.302 Definitions of other terms.

(a) *Conspicuous Admixture*. All matter other than canola, including but not limited to ergot, sclerotinia, and stones, which is conspicuous and readily distinguishable from canola and which remains in the sample after the removal of machine separated dockage. Conspicuous admixture is added to machine separated dockage in the computation of total dockage.

(b) *Damaged kernels*. Canola and pieces of canola that are heat-damaged, sprout-damaged, mold-damaged, distinctly green damaged, frost damaged, rimed damaged, or otherwise materially damaged.

(c) *Distinctly green kernels*. Canola and pieces of canola which, after being crushed, exhibit a distinctly green color.

(d) *Dockage*. All matter other than canola that can be removed from the original sample by use of an approved device according to procedures prescribed in FGIS instructions. Also, underdeveloped, shriveled, and small pieces of canola kernels that cannot be recovered by properly rescreening or recleaning. Machine separated dockage is added to conspicuous admixture in the computation of total dockage.

(e) *Ergot*. Sclerotia (sclerotium, sing.) of the fungus, *Claviceps* species, which are associated with some seeds other

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than canola where the fungal organism has replaced the seed.

(f) *Heat-damaged kernels*. Canola and pieces of canola which, after being crushed, exhibit that they are discolored and damaged by heat.

(g) *Inconspicuous admixture*. Any seed which is difficult to distinguish from canola. This includes, but is not limited to, common wild mustard (*Brassica kaber* and *B. juncea*), domestic brown mustard (*Brassica juncea*), yellow mustard (*B. hirta*), and seed other than the mustard group.

(h) *Sclerotia* (*Sclerotium*, *sing.*). Dark colored or black resting bodies of the fungi *Sclerotinia* and *Claviceps*.

(i) *Sclerotinia*. Genus name which includes the fungus *Sclerotinia sclerotiorum* which produces sclerotia. Canola is only infrequently infected, and the sclerotia, unlike sclerotia of ergot, are usually associated within the stem of the plants.

PRINCIPLES GOVERNING THE APPLICATION OF STANDARDS

§ 810.303 Basis of determination.

Each determination of conspicuous admixture, ergot, sclerotinia, stones, damaged kernels, heat-damaged kernels, distinctly green kernels, and inconspicuous admixture is made on the basis of the sample when free from dockage. Other determinations not specifically provided for under the general provisions are made on the basis of the sample as a whole, except the determination of odor is made on either the basis of the sample as a whole or the sample when free from dockage. The content of glucosinolates and erucic acid is determined on the basis of the sample according to procedures prescribed in FGIS instructions.

GRADES AND GRADE REQUIREMENTS

§ 810.304 Grades and grade requirements for canola.

Grading factors	Grades, U.S. Nos.		
	1	2	3
Maximum percent limits of:			
Damaged kernels:			
Heat damaged	0.1	0.5	2.0
Distinctly green	2.0	6.0	20.0
Total	3.0	10.0	20.0
Conspicuous admixture:			

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Grading factors	Grades, U.S. Nos.		
	1	2	3
Ergot	0.05	0.05	0.05
Sclerotinia	0.05	0.10	0.15
Stones	0.05	0.05	0.05
Total	1.0	1.5	2.0
Inconspicuous admixture	5.0	5.0	5.0
Maximum count limits of:			
Other material:			
Animal filth	3	3	3
Glass	0	0	0
Unknown foreign substance	1	1	1
U.S. Sample grade Canola that:			
(a) Does not meet the requirements for U.S. Nos. 1, 2, 3; or			
(b) Has a musty, sour, or commercially objectionable foreign odor; or			
(c) Is heating or otherwise of distinctly low quality.			

SPECIAL GRADES AND SPECIAL GRADE REQUIREMENTS

§ 810.305 Special grades and special grade requirements.

Garlicky canola. Canola that contains more than two green garlic bulblets or an equivalent quantity of dry or partly dry bulblets in approximately a 500 gram portion.

NONGRADE REQUIREMENTS

§ 810.306 Nongrade requirements.

Glucosinolates. Content of glucosinolates in canola is determined according to procedures prescribed in FGIS instructions.

Subpart D—United States Standards for Corn

TERMS DEFINED

§ 810.401 Definition of corn.

Grain that consists of 50 percent or more of whole kernels of shelled dent corn and/or shelled flint corn (*Zea mays* L.) and not more than 10.0 percent of other grains for which standards have been established under the United States Grain Standards Act.

§ 810.402 Definition of other terms.

(a) *Broken corn*. All matter that passes readily through a 12/64 round-hole sieve and over a 6/64 round-hole